

Balfour Beatty Construction

Avocet Tower

Noise Suppression Plan

7373 Wisconsin Avenue, Bethesda, MD 20814

Scope of Work

- Scaffolding, formwork, rebar, post tensioning, and pouring 23 stories of above grade floors. Includes the use of concrete trucks, concrete pump tower, and trowel machines for finishing concrete. Work would include late night finishing of concrete, time dependent on concrete delivery during day.
- Below and above grade Masonry. Work to primarily on the interior of the building, not exterior work.
- Tower crane for hanging concrete precast panels at night, curtain wall, Mechanical equipment, and steel. Tower cranes will also need to be raised and demobilized.
- Installation of stud framing, roofing, curtain wall, concrete precast panels, and miscellaneous metals. Primarily day work.
- Hardscape and landscaping. Primarily day work.
- Install underground utilities along Waverly St and Montgomery Ave.

The above listed work will take place above and below grade. Construction on the Avocet Tower project will occur downtown in Bethesda and is adjacent to other business locations. The duration of this project is 16 months (ending in November 2021).

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Implementation Plan

- Construction trucks and equipment will be well maintained and equipped with efficient mufflers and moving parts to avoid excessive noise.
- Generators will be used as a last resort. Sound deadening materials will be used to control noise if required.
- Avoid idling of trucks and equipment. If trucks or equipment are not in use, operator will shut down the machine to avoid excessive noise. Trucks will be ushered away from Hotel areas if parked or standing.
- Noise levels will be monitored periodically by Balfour Beatty with our Sound Level Meter. Manufacture specification data states Accuracy at +, - 1.5 dB. The Meter will be verified against another meter weekly. These reading will be kept on file in the Balfour Beatty jobsite office. See below for current readings over the past week. 6/10/2020 thru 6/18/2020.
- Noise dampening blankets will be utilized to reduce the amount of noise emitted by the concrete pump tower.
- All delivery and onsite dump truck drivers will be notified of noise mitigation procedures prior to work.
- Electric Welders will be utilized to eliminate small engine noise.
- White noise backup alarms will be utilized on Concrete trucks.
- During evening Precast installation, delivery trucks will utilize pull through delivery routes to eliminate back up alarms. Electric welders will be used to eliminate small engine noise.
- Saw cutting along Montgomery will and has been coordinated during midday.
- Acoustical blankets will be installed along the Montgomery Fence to dampen noise coming off the project to the North.

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Impact on The General Public

The current conditions at the job site and implementation of the methods outlined above have generally reduced the noise levels below the construction noise standards without a suppression plan. As noted in the data below, the highest level of noise is along the Montgomery corridor. On average, the noise is below the standards, but we will install additional sound deadening blankets to lower this noise level.

The Avocet Tower Team will be submitting Temporary Noise Waiver for evening precast installation.

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**Noise Suppression Plan
7373 Wisconsin Avenue, Bethesda, MD 20814
Jobsite Decibel Level Readings**

Points	Readings (dB's) on 6/10/2020			Additional Comments
	6 A.M.	10 A.M.	2 P.M.	
1	57-61	65-78	65-68	Truck at 97
2	60-62	63-67	72-74	
3	62-65	68-70	68-70	Car at 81, Car at 76
4	59-60	68-70	65-67	Car at 81
5	61-70	74-84	71-74	Chainsaw at 88
6	58-62	70-77	68-71	Bus at 80
7	65-68	73-77	73-74	Truck at 82
8	55-60	68-71	73-75	
9	56-58	61-65	66-72	
10	59-70	60-65	64-66	Car at 70
11	NO ACCESS	NO ACCESS	NO ACCESS	
12	53-57	61-71	63-65	
13	53-57	61-71	63-65	
14	53-57	61-71	63-65	
15	53-57	61-71	63-65	
16	N/A	60-64	68-71	
17	N/A	62-65	70-75	
18	N/A	65-72	64-68	
Average	60	68	68	Overall Average: 65

Points	Readings (dB's) on 6/11/2020			Additional Comments
	6 A.M.	10 A.M.	2 P.M.	
1	61-62	69-71	62-65	Car at 69, Truck at 84
2	60-63	63-66	62-65	
3	57-59	69-73	65-70	
4	65-69	68-70	62-66	
5	59-61	68-72	70-74	
6	66-69	66-71	68-74	
7	68-69	69-73	70-72	Truck at 77, Truck at 84
8	63-64	63-68	68-72	
9	58-60	59-63	63-65	
10	56-58	65-67	60-64	
11	NO ACCESS	NO ACCESS	NO ACCESS	
12	55-56	63-67	60-62	
13	55-56	63-67	60-62	
14	55-56	63-67	60-62	
15	55-56	63-67	60-62	
16	58-59	63-65	64-66	
17	61-63	67-72	71-72	
18	58-59	67-73	63-70	Car at 77, Truck at 89
Average	60	67	66	Overall Average: 64

Points	Readings (dB's) on 6/12/2020			Additional Comments
	6 A.M.	10 A.M.	2 P.M.	
1	58-61	62-70	64-66	
2	62-65	65-67	69-72	Truck at 80
3	57-59	69-72	71-77	
4	54-56	72-76	71-72	
5	58-61	67-71	78-79	
6	56-58	73-76	70-75	
7	57-59	74-77	73-74	
8	58-60	73-74	66-68	Bus at 75
9	54-56	73-77	67-71	
10	55-59	68-70	65-68	
11	NO ACCESS	NO ACCESS	NO ACCESS	
12	54-56	68-72	66-72	
13	54-56	68-72	66-72	
14	54-56	68-72	66-72	
15	54-56	68-72	66-72	
16	53-55	70-71	71-72	
17	59-61	66-69	62-65	
18	60-64	73-77	67-74	Truck at 74, Semi at 83
Average	58	71	70	Overall Average: 66

Points	Readings (dB's) on 6/12/2020			Additional Comments
	6 A.M.	10 A.M.	2 P.M.	
1	58-61	62-70	64-66	
2	62-65	65-67	69-72	Truck at 80
3	57-59	69-72	71-77	
4	54-56	72-76	71-72	
5	58-61	67-71	78-79	
6	56-58	73-76	70-75	
7	57-59	74-77	73-74	
8	58-60	73-74	66-68	Bus at 75
9	54-56	73-77	67-71	
10	55-59	68-70	65-68	
11	NO ACCESS	NO ACCESS	NO ACCESS	
12	54-56	68-72	66-72	
13	54-56	68-72	66-72	
14	54-56	68-72	66-72	
15	54-56	68-72	66-72	
16	53-55	70-71	71-72	
17	59-61	66-69	62-65	
18	60-64	73-77	67-74	Truck at 74, Semi at 83
Average	58	71	70	Overall Average: 66

Points	Readings (dB's) on 6/15/2020			Additional Comments
	7:30 A.M.	10 A.M.	2 P.M.	
1	59-66	63-65	61-64	6/12/20- Steve Martin recommended to take reading near Hyatt hotel. While at the hotel, you could not hear the noise from our job, because of the noise from other construction jobs.
2	68-70	71-73	71-73	Truck at 84
3	68-69	64-67	69-73	Truck at 81
4	62-68	66-68	64-66	
5	64-67	72-75	68-75	
6	64-68	82-92	72-80	Pump truck and compactor running near by
7	62-65	70-72	71-74	
8	64-67	71-72	71-72	
9	63-67	68-69	67-69	
10	66-70	65-70	67-69	
11	NO ACCESS	NO ACCESS	NO ACCESS	
12	67-73	67-72	69-70	
13	67-73	67-72	69-70	
14	67-73	67-72	69-70	
15	67-73	67-72	69-70	
16	60-64	66-72	69-70	
17	60-67	71-73	68-70	Truck at 91
18	60-67	66-71	68-71	Tailgate slam at 86
19	64-67	66-71	68-71	
Average	66	70	70	Overall Average: 69

Points	Readings (dB's) on 6/16/2020			Additional Comments
	7:35 A.M.	10 A.M.	2:30 P.M.	
1	66-68	62-64	65-69	
2	59-66	63-69	66-72	
3	64-73	65-71	68-73	
4	64-67	69-71	64-68	
5	65-69	67-68	64-73	
6	65-68	62-75	68-72	
7	65-73	68-71	69-75	Bus at 80
8	64-69	66-69	67-69	Truck at 86
9	60-63	64-68	66-72	
10	62-71	65-70	63-68	
11	NO ACCESS	NO ACCESS	NO ACCESS	
12	66-72	64-66	63-73	
13	66-72	64-66	63-73	
14	66-72	64-66	63-73	
15	66-72	64-66	63-73	
16	61-64	68-70	68-72	
17	63-73	73-74	67-69	
18	61-69	62-65	68-72	Truck at 79
19	61-69	63-66	64-69	
Average	67	67	68	Overall Average: 67

Points	Readings (dB's) on 6/17/2020			Additional Comments
	7:35 A.M.	10 A.M.	2:30 P.M.	
1	68-73	na	na	
2	69-73	na	na	
3	58-63	na	na	
4	63-68	na	na	Car @ 81
5	65-69	na	na	
6	67-74	na	na	
7	65-73	na	na	
8	65-73	na	na	
9	63-68	na	na	
10	62-65	na	na	
11	NO ACCESS	na	na	
12	62-70	na	na	
13	67-70	na	na	
14	67-70	na	na	
15	67-70	na	na	
16	63-66	na	na	
17	68-70	na	na	
18	62-65	na	na	Car @ 86; Truck @ 87
19	64-67	na	na	
Average	67	na	na	Overall Average: 67

6/18/2020 – On the deck as close to Marriot as we could get above point 1 and point 14.

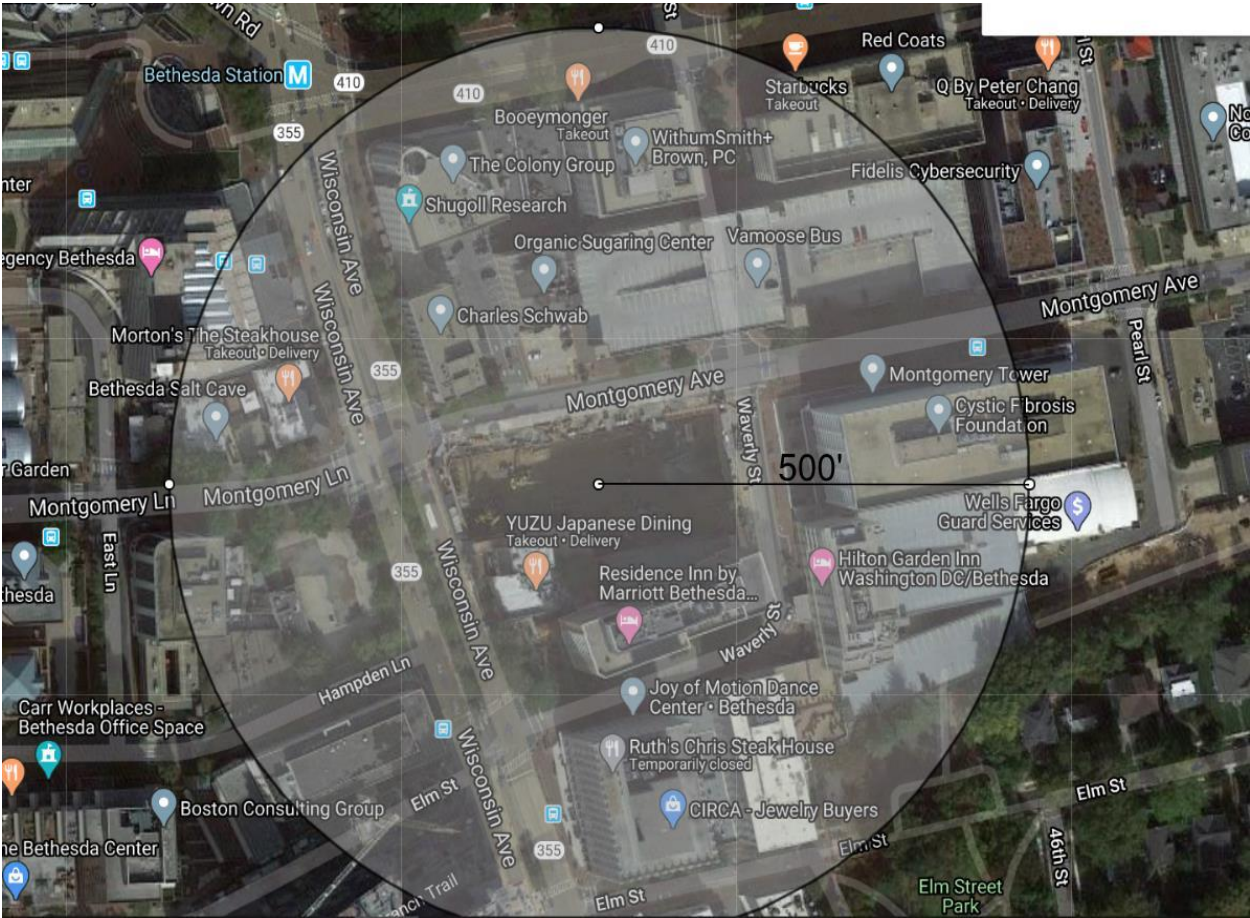
Reading where before and after the pump was discharging concrete.

Before @ 7:38am = 61-65 dB

During use @ 8:40am = 64-66 dB

The charts above consists of decibel readings taken throughout the jobsite, and near neighboring businesses. The decibel readings were recorded each day for a 7-day period. The data above shows that construction related noises on the job do not meet or exceed the decibel levels set by The Montgomery County Noise Control Law. Readings were recorded periodically throughout the workday between 6 A.M. and 2 P.M.. Decibel levels were recorded by Balfour Beatty's Sound Level Meter, and were taken on a receiving property no closer than 50 feet from the job. These readings represent the ambient sound levels at 7373 Wisconsin Avenue, Bethesda MD 20814. Readings will be collected and kept on file in the Balfour Beatty jobsite office, as well as stored online. Readings are taken to allow for proper monitoring and documenting of decibel levels throughout the construction project.

Noise Suppression Plan
7373 Wisconsin Avenue, Bethesda, MD 20814
Neighboring Businesses/Residents



500' Adjacent Property List	
Address	Name
7345 Wisconsin Ave unit b, Bethesda, MD 20814	YUZU Japanese Dining
7335 Wisconsin Ave, Bethesda, MD 20814	Residence Inn by Marriott Bethesda
7315 Wisconsin Ave #180e, Bethesda, MD 20814	Joy of Motion Dance Center
7315 Wisconsin Ave, Bethesda, MD 20814	Ruth's Chris Steak House
Wisconsin Towers at Bethesda Crossing, 7315 Wisconsin Ave Suite 230E, Bethesda, MD 20814	CIRCA - Jewelry Buyers
7301 Waverly St, Bethesda, MD 20814	Hilton Garden INN Washington DC/ Bethesda
7300 Pearl St, Bethesda, MD 20814	Wells Fargo Guard Service
4550 Montgomery Ave suite 1100 n, Bethesda, MD 20814	Cystic Fibrosis Foundation
4550 Montgomery Ave, Bethesda, MD 20814	Montgomery Tower
4641 Montgomery Ave #110, Bethesda, MD 20814	Vamoose Bus Stop
4641 Montgomery Ave #209, Bethesda, MD 20814	Organic Sugaring Center
7475 Wisconsin Ave #200, Bethesda, MD 20814	Shugoll Research
7401 Wisconsin Ave #100, Bethesda, MD 20814	Charles Schwab
7400 Wisconsin Ave, Bethesda, MD 20814	Morton's The Steakhouse
4709 Montgomery Ln, Bethesda, MD 20814	Bethesda Salt Cave
7475 Wisconsin Ave Suite 1100, Bethesda, MD 20814	The Colony Group
4600 E W Hwy #900, Bethesda, MD 20814	WithumSmith+ Brown, PC
4600 E W Hwy, Bethesda, MD 20814	Booeymonger
4520 E W Hwy, Bethesda, MD 20814	Starbucks
4500 E W Hwy # 400, Bethesda, MD 20814	Fidelis Cybersecurity
4800 Hampden Ln # 400, Bethesda, MD 20814	Boston Consulting Group
4800 Montgomery Ln Ste 100, Bethesda, MD 20814	Coldwell Banker Residential Brokerage
7315 Wisconsin Ave #1000w, Bethesda, MD 20814	Calvert Impact Capital
7220 Wisconsin Ave #210, Bethesda, MD 20814	A2F Consulting
7315 Wisconsin Ave #400west, Bethesda, MD 20814	MakeOffices Maryland at Bethesda
7315 Wisconsin Ave #1200w, Bethesda, MD 20814	Child Trends
4550 Montgomery Ave, Bethesda, MD 20814	Spotluck
4550 Montgomery Ave #950N, Bethesda, MD 20814	Aledade
4550 Montgomery Ave STE 700, Bethesda, MD 20814	AABB
4550 Montgomery Ave #775, Bethesda, MD 20814	West & Feinberg, P.C.
4550 Montgomery Ave #320n, Bethesda, MD 20814	Randstad
7401 Wisconsin Ave #500, Bethesda, MD 20814	Muse Architects
3 Bethesda Metro Center Suite #B011 7450 wisconsin avenue lower level, Bethesda, MD 20814	Gateway Newsstand
7475 Wisconsin Ave #1000, Bethesda, MD 20814	Econometrica
7475 Wisconsin Ave Suite 300, Bethesda, MD 20814	Wells Fargo Private Bank
4650 E W Hwy, Bethesda, MD 20814	Metro Cleaners
4650 E W Hwy, Bethesda, MD 20814	Long & Foster Gateway Bethesda, MD
4600 E W Hwy #102, Bethesda, MD 20814	Waverly Street Gallery
4600 E W Hwy #875, Bethesda, MD 20814	Greenberg Wexler & Eig
4600 E W Hwy #110, Bethesda, MD 20814	Crescent Printing
4520 E W Hwy, Bethesda, MD 20814	Bethesda Law Group
4520 E W Hwy #101, Bethesda, MD 20814	Admiral Security Services
7400 Wisconsin Ave, Bethesda, MD 20814	TRUEBODY Bethesda
4709 Montgomery Ln, Bethesda, MD 20814	Sullivan & Company
4711 Montgomery Ln, Bethesda, MD 20814	Lux Studios
4717 Hampden Ln, Bethesda, MD 20814	Moders Tailor
4719 Hampden Ln 3rd floor, Bethesda, MD 20814	Washington Property
4720 Montgomery Ln #520, Bethesda, MD 20814	Timothy Force CPA, P.C.
4720 Montgomery Ln #500, Bethesda, MD 20814	American Medical Informatics Association